

INTERNATIONAL SEARCH REPORT

International application No.
PCT/SE 2004/000604

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: C12N 15/82, C07K14/415

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002138870 A1 (CHIANG ET AL), 26 Sept 2002 (26.09.2002), The whole document	1-7,9-17
A	--	8
A	WO 0070058 A2 (THE VICTORIA UNIVERSITY OF MANCHESTER), 23 November 2000 (23.11.2000), the whole document	1-17
A	--	
A	Proc. Natl. Acad. Sci., Volume 95, October 1998, Fredrik Sterky et al, "Gene discovery in the wood-forming tissues of poplar: Analysis of 5,692 expressed sequence", pages 13330-13335, see the whole document	1-17
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☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

23 July 2004

Date of mailing of the international search report

27-07-2004

Name and mailing address of the ISA/
Swedish Patent Office
Box 5055, S-102 42 STOCKHOLM
Facsimile No. +46 8 666 02 86

Authorized officer

MALIN SÖDERMAN/BS
Telephone No. +46 8 782 25 00

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	The Plant Journal, Volume 16, No. 3, 1998, Magnus Hertzberg et al, "Molecular characterisation of a novel plant homeobox gene expressed in the maturing xylem zone of Populus tremula X tremuloides", pages 285-295, see whole document --	1-17
A	PNAS, Volume 98, No. 25, 2001, Magnus Hertzberg et al, "A transcriptional roadmap to wood formation", pages 14732-14737, see the whole document --	1-17
A	Proc. Natl. Acad. Sci., Volume 95, 1998, Wen-Jing Hu et al, "Compartmentalized expression of the two structurally and functionally distinct 4-coumarate: CoA ligase genes in aspen (Populus tremuloides), pages 5407-5412, see the whole document -- -----	1-17

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Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of Item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:

a. type of material

- ☒ a sequence listing
☐ table(s) related to the sequence listing

b. format of material

- ☒ in written format
☒ in computer readable form

c. time of filing/furnishing

- ☐ contained in the international application as filed
☒ filed together with the international application in computer readable form
☐ furnished subsequently to this Authority for the purposes of search

2. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

3. Additional comments:

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: **1-17**
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
see extra sheet
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

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Box II.2

The sequences on diskette (underlined sequences in figure 1a-1e) does not correspond to the sequences in claim 1 and figure 1a-1e (underlined sequences in figure 1a-1e and other sequence), thereby rendering the definition of the subject-matter of said claim unclear (Article 6 PCT).

Consequently, the search has been carried out for those parts of the application which appear to be clear, namely the sequences on diskette (underlined sequences in figure 1a-1e).

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Information on patent family members

30/04/2004

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US 2002138870 A1 26/09/2002

US	2002124281 A	05/09/2002
AU	8871601 A	22/03/2002
AU	8876501 A	22/03/2002
BR	0113654 A	23/09/2003
CA	2421215 A	14/03/2002
CN	1473198 T	04/02/2004
EP	1320617 A	25/06/2003
US	2002078474 A	20/06/2002
WO	0220717 A	14/03/2002
WO	0220812 A	14/03/2002

WO 0070058 A2 23/11/2000

AU	4934500 A	05/12/2000
GB	9911379 D	00/00/0000